

PROJECT DESCRIPTION

GENERAL
THIS PORTION OF THE PROJECT INVOLVES THE INSTALLATION OF HAZARD IDENTIFICATION BEACONS (HIB) ON MD 30 (HANOVER PIKE) NEAR THE INTERSECTION OF MD 482 (HAMPSTEAD-MEXICO ROAD) IN CARROLL COUNTY DUE TO THE INSTALLATION OF A ROUNDABOUT. MD 30 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION
EACH HIB WILL OPERATE IN FLASHING MODE WITH FLASHING YELLOW BEACONS ON MD 30 (HANOVER PIKE).

CONTROLLER REQUIREMENTS
EACH HIB WILL CONTAIN A CABINET AND CONTROLLER, SIGNAL HEADS, SIGN, AND POWER SERVICE.

PHONE DROP
THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE TWO PHONE DROP LINE INSTALLATIONS. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

Mr. John Concannon
Assistant District Engineer - Traffic
Phone: 301-624-8140/8141

Ms. Andrea Abend
Assistant District Engineer - Utility
Phone: 301-624-8105/8116

Mr. Raymond Johnson
Assistant District Engineer - Maintenance
Phone: 301-624-8105/8106

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Edward Rodenhizer
Chief, SHA Signal Shop
Phone: 410-787-7650

The Power Company Representative is:
Baltimore Gas & Electric Company
7317 Parkway Drive South
Hanover, MD 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
900000	2 EA	CABINET FLASHER POLE MOUNT
973023	40 SF	SHEET ALUMINUM SIGNS (POLE MOUNTED)
	2 EA	W2-6 (48 IN. X 48 IN.) FY
	2 EA	W13-1 (24 IN. X 24 IN.) FY

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO	QUANTITY	DESCRIPTION
---------	----------	-------------

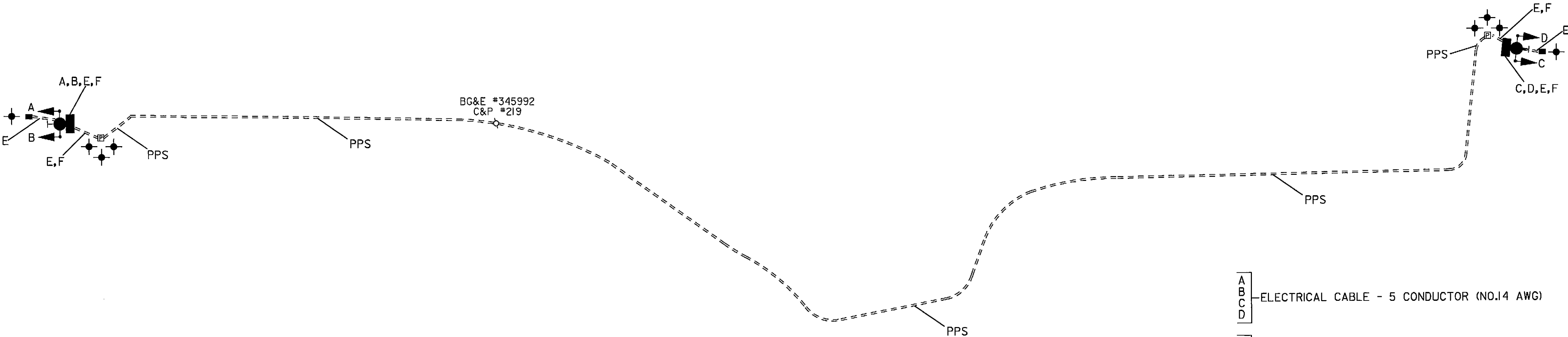
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
120500	1 LS	MAINTENANCE OF TRAFFIC
203030	2 CY	TEST PIT EXCAVATION
801004	3 CY	CONCRETE FOR SIGNAL FOUNDATION
802501	100 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
805125	2650 LF	2 INCH SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
807202	2 EA	METERED SERVICE PEDESTAL
810022	35 LF	ELECTRICAL CABLE - 1 CONDUCTOR NO.8 AWG - THHN/THWN
811001	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
813015	40 SF	INSTALL OVERHEAD SIGN
818006	2 EA	20 FOOT BREAKAWAY PEDESTAL POLE
837001	8 EA	GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH
860284	4 EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
860292	2 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
861107	45 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
871201	2 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT

WIRING DIAGRAM



HIB PHASE CHART

	1	2	3	4
	⊙	⊙	⊙	⊙
NORMAL OPERATION	FLY	FLY	FLY	FLY

- A, B, C, D - ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)
- E - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
- F - ELECTRICAL CABLE - 1 CONDUCTOR, 2 WIRE NO. 8 AWG - THHN/THWN
- PPS - PROPOSED UNDERGROUND POWER SERVICE
- G - PROPOSED GROUND ROD - 3/4 INCH DIAMETER X 10 FOOT LENGTH.
- M - PROPOSED METER SERVICE PEDESTAL



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 30 RELOCATED
FROM SOUTH OF WOLF HILL DRIVE TO NORTH OF HAMPSTEAD
MD 482 HIB INSTALLATION

TRAFFIC SIGNALIZATION PLAN

SCALE 1" = 40' DATE 08/2007 CONTRACT NO. CL4185370

DESIGNED BY DSU COUNTY CARROLL
DRAWN BY JEH LOGMILE 0800300.03
CHECKED BY DSU T.I.M.S. NO. F407
F.A.P. NO. ACHP-2921(001)NAC-NH-107-(19)N TOD NO.

TS NO. 4610&4611 DRAWING SG-04 OF 19 SHEET NO. 16 OF 82

ISSUED FOR CONSTRUCTION 8/30/07 - SUBMITTAL #20

WHITNEY CONSULTING
ENGINEERS
BAILEY 849 FAIRMOUNT AVENUE
COX SUITE 100
MAGNANI BALTIMORE, MD 21286
(410) 512-4500